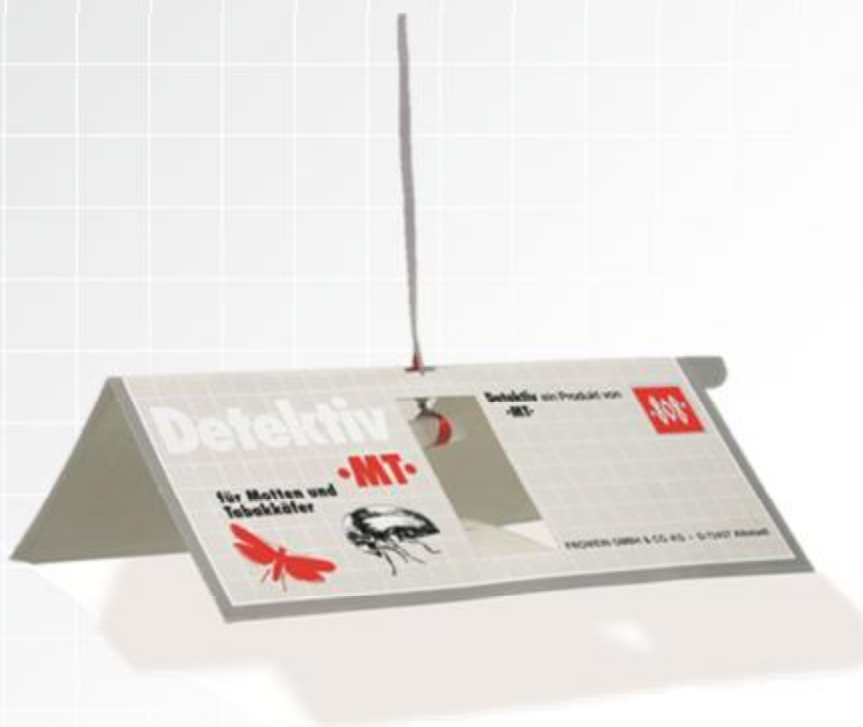


# FROWEIN GMBH & CO. KG

## DETEKTIV ·MT·

Pest control with biotechnology

If and where there are moths can be determined by the use of modern biotechnics. It can be determined so quickly that the infestation can still be controlled or partly eliminated with little expenditure – environmentally friendly!



BIOZIDE



PRODUKTINFORMATION

## Year after year

May comes and the annoyance begins: angry customers complain about spoiled goods. Spoiled due to pests - mostly beetle larvae and moth larvae. Producers and often the dealers are blamed for it.

The public control services do not ask about the blame. Hygiene regulations demand rooms that are free of pests. Otherwise shutdown threatens. Every oak has been an acorn.

## Prevention is worthwhile

Among some flying insects the females, who are ready for copulation, attract the males with their endogenous „perfume“ - a sexual pheromone -. Sometimes the distance is surprising. They follow zigzag the increasing concentration of the perfume and they certainly reach their destination. For moths sex is more important than anything else. During their short life - less than one week - the females have to produce approximately 200 eggs. They have to deposit the eggs on foodstuffs.

## Birth-control

If it is possible to kill the males before copulation the offspring fails to come - no eggs, no larvae, no clumps, no spots and holes, no aversion and no problems with control authorities.

## Attraction with fatal result

Plastic dispenser with synthetically-produced sexual pheromones are the „magnets“ of Detektiv ·MT· , a very special adhesive trap.

Detektiv ·MT· simulates females being ready for copulation. The males immediately fly toward the trap and they are stuck. Some females may also stray into the trap.

## Early recognition

Detektiv ·MT· must be ready for use before start of the flying time, hence about in the middle of May. This is the only way to suppress or to reduce considerably the infestation. At a later date too many female moths compete with the trap.

Detektiv ·MT· signalizes infestation and its heaviness at any time, much earlier and more reliable than any other control!

Thus control can be started in time. For example mist spraying with **Detmolin** in large rooms.

Pheromone traps are not suitable for mass control instead of a control measure!

## Dosage

For every 1000 square meter area of stocks, manufacturing rooms and selling rooms, etc. the following quantities are required for:

	moths	tobacco beetles
Early recognition	3 – 5 pieces	4 – 6 pieces
Suppressing infestation	10 – 20; max. 30 pieces	not possible

Moths pheromone dispensers are to be replaced every 6 weeks, pheromone dispensers for tobacco beetles are to be replaced every 4 weeks.

## Localisation by screening

With evenly distributed Detektiv ·MT· -traps the focus of infestation can be exactly localised and eliminated using less preparation by spraying with Detmolin.

Sometimes it will be sufficient to remove or to destruct the infested goods.



Larva of the dried fruit moth

## The name is deceptive

Stored product moths are not very choosy as far as food is concerned. That supports spreading. If for example dried fruit moths are brought in together with dried fruit, the infestation spreads - to dried vegetables, almonds, tea, grain, chocolate, spices, nuts, flour, nougat, semolina, herbs, bird food, dog-biscuits, etc.

These moths are related to each other and react to the same pheromone:

Dried fruit moth  
*Plodia interpunctella*

Cocoa moth, tobacco moth  
*Ephestia elutella*

Mediterranean flour moth  
*Ephestia kuehniella*

Tropical cocoa moth  
*Ephestia cautella*

Raisin moth  
*Ephestia calidella*

Detektiv ·MT· can also be equipped with special tablets. They contain the sexual pheromone „Serricornin“ and attract tobacco beetles (*lasioderma serricorne*). Thus, special traps are not necessary.



Tobacco beetle, *Lasioderma serricorne*

#### **Detektiv ·MT· – unsurpassed**

- special attraction, intensified by supporting delta shape.
- dust protected undersides lengthen the durability.
- evaluation system for controlling the infestation dynamic.

#### **Packaging**

10 and 100 pieces.



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